

ABSTRACT AMENDMENT

Replace the abstract with:

Abstract Summary

The present invention concerns a procedure for the manufacture of plant lipoxygenases with altered positional specificity as well as the lipoxygenase obtained through the procedure and its use for the hydroperoxylation of substrates. In particular the LOXs according to the invention permit for the first time the manufacture of new γ -linolenic acid derivatives in large quantity. For this γ -linolenic acid as substrate is incubated under suitable conditions with the LOXs according to the invention. Depending on the mutant LOXs put into use a hydroperoxylation of the γ -linolenic acid then ensues, preferably at position 6 or position 9 or positions 6 and 9.

AMENDMENTS TO THE DRAWINGS

The attached "Replacement Sheet" includes changes to Fig. 5. This sheet, which includes Fig. 5, replaces the original sheet including Fig. 5. Fig. 5 has been amended to refer to the sequence listing denoted SEQ ID NO: 1. A marked up copy of the amendment to Fig. 5 is submitted herewith.

Attachment: Replacement Sheet
Annotated Sheet Showing Changes